

Akash Ghosh

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Education

SRM University AP

Bachelor of Science in Computer Science

Expected July 2025

Amaravati, AP

- **Relevant Coursework:** Data Structures and Algorithms, Operating system, Software Engineering

Experience

Smart bridge / Katalon Studio, Jenkins, Automation [🔗 Link](#)

- Configured and managed (CI/CD) pipelines using **Jenkins** to streamline software testing and deployment.
- Collaborated with **cross-functional teams** to identify automation opportunities and improve overall testing workflows.
- Automated repetitive testing tasks, significantly reducing manual effort and **improving accuracy**.
- Gained hands-on experience by integrating automated test suites into development workflows.

Projects

IN-SILICO APPROACH TO AID DRUG DISCOVERY PROCESS FOR ALZHEIMER'S DISEASE | Python, ML [🔗 Link](#)

- This research is used to discover drug for a specific disease and keeping **one target protein**.
- Results-driven machine learning models have been leveraged to analyze customer data, resulting in an **increase in personalized product recommendations** and a **uplift in customer engagement** and conversion rates.
- Evaluated multiple regression models for drug discovery, selecting the model with the **highest R-squared value**; the chosen model demonstrated an **increase in predictive accuracy** compared to previous models.

X (previously Twitter) trend scrapper | Flask, selenium [🔗 Link](#)

- Automated the process of gathering trending data from Twitter with Selenium for accurate and up-to-date results.
- Developed a web application to **scrape real-time Twitter trending topics** using Flask, Selenium, and MongoDB.
- Used MongoDB to store scraped data for easy retrieval and future analysis.
- Provides insights into trending topics for businesses to **identify emerging trends**, consumer preferences, and industry specific discussions.

TMDB MOVIE DATA ANALYSIS AND VISUALIZATION USING PYTHON | PYTHON, EDA [🔗 Link](#)

- **Performed EDA** using **Pandas and NumPy** on TMDB movie datasets to uncover insights on genre trends, revenue, and ratings.
- **Visualized data** with **Matplotlib and Seaborn**, creating compelling visuals that aided in decision-making processes.
- Managed and presented the project using Jupyter Notebook and version-controlled with **GitHub**.
- Developed and executed complex **SQL** queries to extract and manipulate large datasets, ensuring efficient data retrieval and analysis.

Research

Deciphering Indus valley Script | Deep learning

- Working on **decoding the ancient Indus Valley Script** using advanced deep learning and machine learning techniques.
- Utilizing **Self-Organizing Maps (SOM)** to visualize and group similar glyphs based on their structural features.
- Applying clustering algorithms and nearest neighbor methods to **identify patterns** and relationships among symbols.
- Exploring cross-comparisons with similar undeciphered scripts to infer meaning and usage context.

Technical Skills & Certifications | [🔗 Link](#)

Languages: Python, SQL, C/C++, HTML, CSS, JavaScript

Technologies: React.js, Express.js, Node.js, **MySQL, NoSQL**, AWS, Jenkins, Linux, tailwind, Figma, **Kali Linux**

Concepts: DSA, **Software Development Lifecycle**, NLP, Computer Vision, **Generative AI**, Machine Learning, Database management, Applied Data Science, Cyber Security

Certifications: AWS Certified Machine Learning (Infosys Springboard), Supervised ML by Coursera

Hackathons: C-squared Hackathon (**Winner**), Rakathon by Rakuten (**Runner-ups**), Chain link by FOSSASIA, resSmart India Hackathon.